

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 12214 (1987): General requirements for rotary hose for water-well drilling equipment [MED 21: Diamond Core and Waterwell Drilling]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



Indian Standard

GENERAL REQUIREMENTS FOR
ROTARY HOSE FOR WATER-WELL DRILLING EQUIPMENT

1. Scope — Lays down general requirements for rotary drilling hose and rotary vibrator hose for water-well drilling equipment.

1.1 Rotary hoses are intended to ensure a flexible connection between the standpipe and the swivel.

2. Definitions

2.1 Test Pressure — The pressure at which the hose is tested for inspection.

2.2 Working Pressure — The maximum working pressure of the hose assembly is the pressure up to which this shall be used.

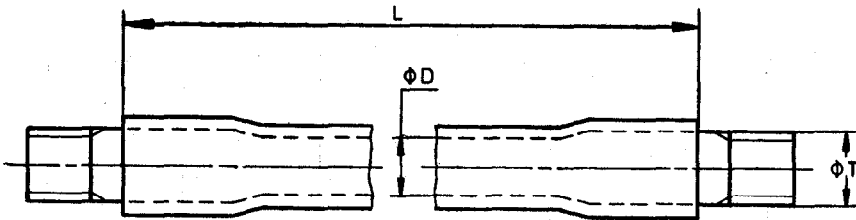
2.3 Burst Pressure — The minimum pressure at which the hose bursts during pressure testing.

2.4 Grades — Rotary hoses shall be classified in grades A, B, C and D according to the working pressure as given in Tables 1 and 2.

3. Dimensions

3.1 Rotary Drilling Hose — Dimensions for the size (inside diameter) and thread size of rotary drilling hose shall be as given in Table 1.

TABLE 1 DIMENSIONS AND PRESSURE FOR ROTARY DRILLING HOSE
(Clauses 2.4, 3.1 and 5.1)



Length *L* — see 3.1.1.

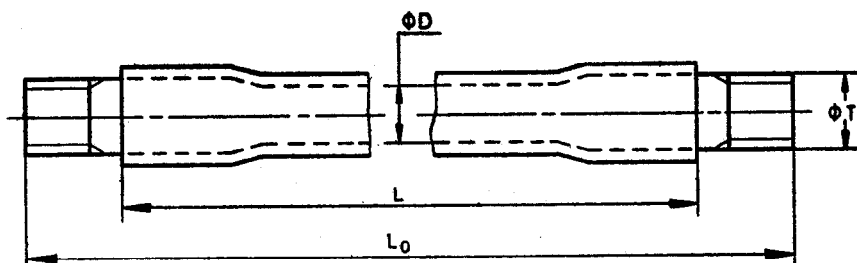
Size (Inside Diameter) <i>D</i>	Threads (Line-Pipe Size) <i>T</i>	Test Pressure in bar*				Working Pressure in bar*			
		Grade				Grade			
		A	B	C	D	A	B	C	D
mm	mm								
50·8	63·5	211	281	—	—	105	141	—	—
	63·5	211	281	563	—	105	141	281	—
63·5	76·2	211	281	563	704	105	141	281	352
	76·2	211	281	563	704	105	141	281	352
76·2	101·6	—	—	563	704	—	—	281	352
	101·6	—	—	563	704	—	—	281	352
	101·6	—	—	563	704	—	—	281	352
	101·6	—	—	563	704	—	—	281	352
88·9	101·6	—	—	563	704	—	—	281	352
	101·6	—	—	563	704	—	—	281	352
	101·6	—	—	563	704	—	—	281	352
	101·6	—	—	563	704	—	—	281	352

*1 bar = 10⁵ Pa = 10⁵ N/m²

3.1.1 Length (L) — Rotary drilling hoses may be manufactured in lengths as agreed to between the purchaser and the manufacturer. Recommended lengths for these hoses are 7.5 for 50.8 mm and 63.5 mm size (inside diameter) hoses and 10 or 12 for 76.2 mm and 88.9 mm size (inside diameter) hoses.

3.2 Rotary Vibrator Hose — Dimensions for the size (inside diameter), length and thread size of rotary vibrator hose shall be as given in Table 2.

TABLE 2 DIMENSIONS AND PRESSURE FOR ROTARY VIBRATOR HOSE
(Clauses 3.2 and 5.1)



Size (Inside Diameter) <i>D</i>	Length <i>L</i>	Overall Length, <i>L₀</i>	Threads (Line-Pipe Size) <i>T</i>	Test Pressure		Working Pressure	
				Grade		Grade	
				C bar	D bar	C bar	D bar
76.2	3 048	3 505	101.6	562	704	281	352
	3 658	4 115	101.6	562	704	281	352
	4 572	5 029	101.6	562	704	281	352
	6 096	6 553	101.6	562	704	281	352
	9 144	9 601	101.6	562	704	281	352
88.9	3 048	3 505	101.6	562	704	281	352
	3 658	4 115	101.6	562	704	281	352
	4 572	5 029	101.6	562	704	281	352
	6 096	6 553	101.6	562	704	281	352
	9 144	9 601	101.6	562	704	281	352

4. Connections

4.1 Rotary hose shall be supplied with external connections threaded with line pipe thread.

5. Tests

5.1 Routine Tests — Each rotary hose shall be individually tested at the test pressure specified in Tables 1 and 2 and held for a minimum period of one minute. There shall not be any leak/drop of pressure.

5.2 Type Test — Rotary hose of each size and grade shall be tested for burst pressure at least once in a year. The rotary hose shall be able to withstand at least two and a half times the working pressure before bursting.

6. Marking

6.1 Rotary hose shall be legibly and permanently marked with manufacturer's name and/or his recognized trade-mark and the working pressure.

EXPLANATORY NOTE

In the preparation of this standard, assistance has been derived from ISO 4041-1978 'Rotary drilling equipment — Rotary hoses', issued by the International Organization for Standardization (ISO), and API Specification 7 'Specification for rotary drilling equipment', issued by the American Petroleum Institute, Washington D.C.